

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A computer-implemented method, comprising:  
storing a list of physical resource objects;  
storing a list of virtual resource objects;  
storing a list of parent and child objects; and  
creating a tree of relationships ~~for~~ of the parent and child objects ~~and to~~ to the physical and virtual resource-~~s~~ objects.
2. (Original) The method of claim 1, wherein storing a list of virtual resource objects includes storing an object representing system memory bandwidth.
3. (Original) The method of claim 2, wherein storing a list of child objects includes storing an object representing a functional unit that consumes bandwidth.
4. (Original) The method of claim 3, wherein storing an object representing a functional unit that consumes bandwidth includes storing an indication of the amount of bandwidth consumed.

5. (Original) The method of claim 4, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents an overlay unit.

6. (Original) The method of claim 4, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a cursor unit.

7. (Original) The method of claim 4, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a display output unit.

8. (Original) The method of claim 1, wherein storing a list of virtual resource objects includes storing an object representing local graphics memory bandwidth.

9. (Original) The method of claim 8, wherein storing a list of child objects includes storing an object representing a functional unit that consumes bandwidth.

10. (Original) The method of claim 9, wherein storing an object representing a functional unit that consumes bandwidth includes storing an indication of the amount of bandwidth consumed.

11. (Original) The method of claim 10, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents an overlay unit.

12. (Original) The method of claim 10, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a cursor unit.

13. (Original) The method of claim 10, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a display output unit.

14. (Currently Amended) A computer-implemented method, comprising:  
maintaining a record of available resources;  
maintaining a record of consumed resources;  
tracking a relationship among resource producers and resource consumers; and  
updating the records of available and consumed resources upon a change in relationship among resource producers and resource consumers.

15. (Currently Amended) The method of claim 14, wherein tracking relationships among resource producers and resource consumers includes tracking a

relationship between a system memory bandwidth producer and a system memory bandwidth consumer.

16. (Currently Amended) The method of claim 14, wherein tracking relationships among resource producers and resource consumers includes tracking a relationship between a graphics local memory bandwidth producer and a graphics local memory consumer.

17. (Currently Amended) A machine-readable medium having stored thereon instructions which, when executed by a computer system, causes the computer system to perform a method comprising:

- storing a list of physical resource objects;
- storing a list of virtual resource objects;
- storing a list of parent and child objects; and
- creating a tree of relationships ~~for~~ of the parent and child objects ~~and~~ to the physical and virtual resource objects.

18. (Original) The machine-readable medium of claim 17, wherein storing a list of virtual resource objects includes storing an object representing system memory bandwidth.

19. (Original) The machine-readable medium of claim 18, wherein storing a list of child objects includes storing an object representing a functional unit that consumes bandwidth.

20. (Original) The machine-readable medium of claim 19, wherein storing an object representing a functional unit that consumes bandwidth includes storing an indication of the amount of bandwidth consumed.

21. (Original) The machine-readable medium of claim 20, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents an overlay unit.

22. (Original) The machine-readable medium of claim 20, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a cursor unit.

23. (Original) The machine-readable medium of claim 20, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a display output unit.

24. (Original) The machine-readable medium of claim 17, wherein storing a list of virtual resource objects includes storing an object representing local graphics memory bandwidth.

25. (Original) The machine-readable medium of claim 24, wherein storing a list of child objects includes storing an object representing a functional unit that consumes bandwidth.

26. (Original) The machine-readable medium of claim 25, wherein storing an object representing a functional unit that consumes bandwidth includes storing an indication of the amount of bandwidth consumed.

27. (Original) The machine-readable medium of claim 26, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents an overlay unit.

28. (Original) The machine-readable medium of claim 26, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a cursor unit.

29. (Original) The machine-readable medium of claim 26, wherein storing an object representing a functional unit that consumes bandwidth includes storing an object that represents a display output unit.

30. (Currently Amended) A machine-readable medium having stored thereon instructions which, when executed by a computer system, causes the computer system to perform a method comprising:

maintaining a record of available resources;  
maintaining a record of consumed resources;  
tracking relationships among resource producers and resource consumers; and  
updating record of available and consumed resources upon a change in relationship among resource producers and resource consumers.

31. (Currently Amended) The machine-readable medium of claim 30, wherein tracking relationships among resource producers and resource consumers includes tracking a relationship between a system memory bandwidth producer and a system memory bandwidth consumer.

32. (Currently Amended) The machine-readable medium of claim 31, wherein tracking relationships among resource producers and resource consumers includes tracking a relationship between a graphics local memory bandwidth producer and a graphics local memory consumer